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William G. Griswold, David Notkin

 July 1993 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,  
Volume 2 Issue 3

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Maintenance tends to degrade the structure of software, ultimately making maintenance more costly. At times, then, it is worthwhile to manipulate the structure of a system to make changes easier. However, manual restructuring is an error-prone and expensive activity. By separating structural manipulations from other maintenance activities, the semantics of a system can be held constant by a tool, assuring that no errors are introduced by restructuring. To allow the maintenance team to focus ...

**Keywords:** CASE, flow analysis, meaning-preserving transformations, software engineering, software evolution, software maintenance, software restructuring, source-level restructuring

# 2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

# 3 [Performance effects of architectural complexity in the Intel 432](#)

Robert P. Colwell, Edward F. Gehringer, E. Douglas Jensen

 August 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 3

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